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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2019-08-17-53** **Date: 10-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at Kaveri Layout in Ward No.03,Attur.
Agency	:	Sri.Sambashiva Reddy C, #14, 6th C Cross, 2nd Main, Gopalappa Extension, Manorayana Palya, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/45/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-07-19
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	09-07-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2019-08-17-53 **Date: 18/07/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at Kaveri Layout in Ward No.03,Attur.
Agency	:	Sri.Sambashiva Reddy C, #14, 6th C Cross, 2nd Main, Gopalappa Extension, Manorayana Palya, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/45/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-07-19
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	18/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	11/07/2019	18/07/2019	151.85 X 151.65 X 151.75	23027	8.842	287.2	12.5	12.4
2	PCC	M15	11/07/2019	18/07/2019	151.91 X 149.78 X 150.99	22754	8.271	280.5	12.3	
3	PCC	M15	11/07/2019	18/07/2019	150.48 X 151.12 X 149.89	22740	8.867	284.5	12.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-08-17-53** **Date: 08/08/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at Kaveri Layout in Ward No.03,Attur.
Agency	:	Sri.Sambashiva Reddy C, #14, 6th C Cross, 2nd Main, Gopalappa Extension, Manorayana Palya, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/45/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-07-19
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	11/07/2019	08/08/2019	151.64 X 151.91 X 150.09	23037	8.706	414.6	18.0	17.7
2	PCC	M15	11/07/2019	08/08/2019	151.08 X 151.21 X 149.42	22846	8.108	406.8	17.8	
3	PCC	M15	11/07/2019	08/08/2019	150.11 X 149.54 X 149.31	22448	8.761	391.1	17.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-08-17-53** **Date: 18/07/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at Kaveri Layout in Ward No.03,Attur.
Agency	:	Sri.Sambashiva Reddy C, #14, 6th C Cross, 2nd Main, Gopalappa Extension, Manorayana Palya, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/45/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-07-19
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	18/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	11/07/2019	18/07/2019	150.09 X 149.80 X 149.35	22483	8.842	275.0	12.2	12.6
2	PCC	M15	11/07/2019	18/07/2019	149.77 X 150.24 X 150.09	22501	8.271	290.1	12.9	
3	PCC	M15	11/07/2019	18/07/2019	151.86 X 149.36 X 149.72	22681	8.867	284.3	12.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 08/08/2019

Lab ID	:	CP-2019-08-17-53
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at Kaveri Layout in Ward No.03,Attur.
Agency	:	Sri.Sambashiva Reddy C, #14, 6th C Cross, 2nd Main, Gopalappa Extension, Manorayana Palya, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/45/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-07-19
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	11/07/2019	08/08/2019	149.28 X 150.77 X 149.05	22507	8.706	403.3	17.9	17.6
2	PCC	M15	11/07/2019	08/08/2019	150.49 X 151.33 X 149.27	22775	8.108	401.1	17.6	
3	PCC	M15	11/07/2019	08/08/2019	150.43 X 151.88 X 150.50	22848	8.761	393.1	17.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-17-53 **Date: 20/07/2019**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains at Kaveri Layout in Ward No.03,Attur.

Agency : Sri.Sambashiva Reddy C, #14, 6th C Cross, 2nd Main, Gopalappa Extension, Manorayana Palya, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/45/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-07-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	13/07/2019	20/07/2019	149.01 X 151.03 X 150.32	22504	8.458	417.5	18.6	18.5
2	Drain Bottom Slab Concrete	M20	13/07/2019	20/07/2019	150.08 X 150.34 X 150.04	22562	8.276	420.8	18.6	
3	Drain Bottom Slab Concrete	M20	13/07/2019	20/07/2019	150.12 X 149.48 X 150.49	22441	8.726	412.9	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-17-53 **Date: 10/08/2019**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains at Kaveri Layout in Ward No.03,Attur.

Agency : Sri.Sambashiva Reddy C, #14, 6th C Cross, 2nd Main, Gopalappa Extension, Manorayana Palya, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/45/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-07-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	13/07/2019	10/08/2019	149.42 X 150.95 X 151.72	22555	8.595	540.1	23.9	23.2
2	Drain Bottom Slab Concrete	M20	13/07/2019	10/08/2019	150.45 X 151.92 X 150.04	22857	8.230	515.4	22.6	
3	Drain Bottom Slab Concrete	M20	13/07/2019	10/08/2019	151.63 X 151.86 X 149.98	23027	8.670	531.5	23.1	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-17-53 **Date: 22/07/2019**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains at Kaveri Layout in Ward No.03,Attur.

Agency : Sri.Sambashiva Reddy C, #14, 6th C Cross, 2nd Main, Gopalappa Extension, Manorayana Palya, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/45/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-07-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	15/07/2019	22/07/2019	150.26 X 151.92 X 149.19	22828	8.458	428.5	18.8	18.5
2	Drain Side Wall Concrete	M20	15/07/2019	22/07/2019	151.08 X 149.40 X 149.07	22572	8.276	406.5	18.0	
3	Drain Side Wall Concrete	M20	15/07/2019	22/07/2019	151.89 X 150.14 X 149.94	22804	8.726	425.4	18.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-17-53 **Date: 22/07/2019**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains at Kaveri Layout in Ward No.03,Attur.

Agency : Sri.Sambashiva Reddy C, #14, 6th C Cross, 2nd Main, Gopalappa Extension, Manorayana Palya, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/45/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-07-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	15/07/2019	22/07/2019	149.08 X 151.00 X 151.29	22512	8.458	426.0	18.9	18.7
2	Drain Side Wall Concrete	M20	15/07/2019	22/07/2019	150.04 X 149.09 X 149.17	22370	8.276	413.8	18.5	
3	Drain Side Wall Concrete	M20	15/07/2019	22/07/2019	149.77 X 149.10 X 149.42	22332	8.726	418.1	18.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-08-17-53** **Date: 20/07/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at Kaveri Layout in Ward No.03,Attur.
Agency	:	Sri.Sambashiva Reddy C, #14, 6th C Cross, 2nd Main, Gopalappa Extension, Manorayana Palya, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/45/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-07-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Bottom Slab Concrete	M20	13/07/2019	20/07/2019	151.77 X 149.46 X 149.61	22683	8.458	420.0	18.5	18.4
2	Drain Bottom Slab Concrete	M20	13/07/2019	20/07/2019	150.94 X 150.18 X 149.08	22668	8.276	415.0	18.3	
3	Drain Bottom Slab Concrete	M20	13/07/2019	20/07/2019	149.73 X 151.03 X 149.03	22613	8.726	414.0	18.3	

Note:
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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2019-08-17-53** **Date: 22-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at Kaveri Layout in Ward No.03,Attur.
Agency	:	Sri.Sambashiva Reddy C, #14, 6th C Cross, 2nd Main, Gopalappa Extension, Manorayana Palya, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/45/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-07-19
Sample Type /Size	:	Precast Cover Slab (100mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	18/07/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-08-17-53** **Date: 06-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at Kaveri Layout in Ward No.03,Attur.
Agency	:	Sri.Sambashiva Reddy C, #14, 6th C Cross, 2nd Main, Gopalappa Extension, Manorayana Palya, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-09/W.O/45/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-07-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	04-07-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	275	275	5.5	94.5	90-100
3	10 mm	2751	3026	60.5	39.5	25-55
4	4.75 mm	1750	4776	95.5	4.5	0-10
	Pan	224	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-08-17-53** **Date: 06-07-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.63	–
4	Bulk Density(Loose) (Kg/l)	1.52	–
5	Bulk Density(Compacted) (Kg/l)	1.54	–
6	Water Absorption(%)	0.21	–
7	Aggregate crushing Value(%)	23.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2019-08-17-53** **Date: 06-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at Kaveri Layout in Ward No.03,Attur.
Agency	:	Sri.Sambashiva Reddy C, #14, 6th C Cross, 2nd Main, Gopalappa Extension, Manorayana Palya, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/45/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-07-19
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	04-07-19
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-08-17-53** **Date: 08-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at Kaveri Layout in Ward No.03,Attur.
Agency	:	Sri.Sambashiva Reddy C, #14, 6th C Cross, 2nd Main, Gopalappa Extension, Manorayana Palya, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/45/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	04-07-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	04-07-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	424	424	2.8	97.2	90-100
3	20 mm	5857	6281	41.9	58.1	30-70
4	10 mm	4228	10509	70.1	29.9	10-35
	4.75 mm	4226	14735	98.2	1.8	0-5
	Pan	265	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-08-17-53** **Date: 08-07-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.59	–
5	Bulk Density(Compacted) (Kg/l)	1.54	–
6	Water Absorption(%)	0.22	–

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-08-17-53** **Date: 02-08-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at Kaveri Layout in Ward No.03,Attur.
Agency	:	Sri.Sambashiva Reddy C, #14, 6th C Cross, 2nd Main, Gopalappa Extension, Manorayana Palya, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/45/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-07-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	05-07-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2019-08-17-53 **Date: 08-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division,
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at Kaveri Layout in Ward No.03,Attur.
Agency	:	Sri.Sambashiva Reddy C, #14, 6th C Cross, 2nd Main, Gopalappa Extension, Manorayana Palya, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/45/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-07-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	05-07-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.1	–
2	Finess by Air permeablity method (m^2/kg,Min)	248.5	225m^2/kg, Min
3	Density (gm/cc)	3.11	–
4	Standard Consistency (%)	27.0%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	265 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

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